



Certificate of Calibration

Calibration and Voltage Plateau

Environmental Restoration Group, Inc.
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Meter/Detector: Manufacturer: Ludlum Model Number: 2929 & 43-10-1 Serial Number: 157320 & PR157821

☒ Mechanical Check ☒ THR/WIN Operation HV Check (+/- 2.5%): ☒ 500 V ☒ 1000 V ☒ 1500 V
☐ P/S Response Check ☐ Reset Check Cable Length: ☒ 39-inch ☐ 72-inch ☐ Other:
☐ Geotropism ☒ Audio Check
☐ Meter Zeroed ☐ Battery Check (Min 4.4 VDC) Alpha Threshold: 170 mV Barometric Pressure: 24.36 inches Hg
Source Distance: ☐ Contact ☐ 6 inches ☒ Other: In planchet Beta Threshold: 4 mV Temperature: 76 °F
Source Geometry: ☐ Side ☐ Below ☒ Other: In planchet Beta Window: 46 mV Relative Humidity: 20 %
Instrument found within tolerance: ☒ Yes ☐ No

Range/Multiplier		Reference Setting		Integrated 1-Min. Count "As Found"		Integrated 1-Min. Count "Reading"	
				α	β	α	β
x 1000		400 Kcpm		398969	398972	398969	398972
x 100		40 Kcpm		39898	39898	39898	39898
x 10		4 Kcpm		3989	3990	3989	3990
x 1		400 cpm		399	399	399	399
High Voltage	Pot. Setting	Alpha Source		Beta Source		Background	
		α	β	α	β	α	β
650	3.68	4251	299	9	2442	4	37
700	3.86	4507	306	11	3180	1	62
750	4.06	4945	579	10	4126	6	79
800	4.26	4934	930	7	5023	4	92

Comments: HV Plateau Scaler Count Time = 1-min. Recommended HV = 700, Pot. setting = 3.86

Reference Instruments and/or Sources:

Ludlum pulser serial number: ☐ 97743 ☒ 201932


Fluke multimeter serial number ☐ 87490128

☒ Alpha Source: Th-230 @ 12,800 dpm (1/4/12) sn: 4098-03

☐ Gamma Source Cs-137 @ 5.2 uCi (1/4/12) sn: 4097-03

☒ Beta Source: Tc-99 @ 17,700 dpm (1/4/12) sn: 4099-03

☐ Other Source:

Calibrated By: 

Calibration Date 5-16-16

Calibration Due: 5-16-17

Reviewed By: 

Date: 5/16/16

ERG Form ITC. 101.D

This calibration conforms to the requirements and acceptable calibration conditions of ANSI N325A - 1997